17612 U.S. PTO 10/601338

15541 U.S. PTO 06/20/03 Preliminary Classification:

Proposed Class:

Subclass:

NOTE: "All applicants are requested to include a preliminary classification on newly filed patent applications. The preliminary classification, preferably class and subclass designations, should be identified in the upper right-hand corner of the letter of transmittal accompanying the application papers, for example 'Proposed Class 2, subclass 129.' "M.P.E.P. § 601, 7th ed.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Box Patent Application
Assistant Commissioner for Patents
Washington, D.C. 20231

NEW APPLICATION TRANSMITTAL

Transmitted herewith for filing is the patent application of

Inventor(s): BENOIST SEBIRE

WARNING: 37 C.F.R. § 1.41(a)(1) points out:

"(a) A patent is applied for in the name or names of the actual inventor or inventors.

"(1) The inventorship of a nonprovisional application is that inventorship set forth in the oath or declaration as prescribed by § 1.63, except as provided for in § 1.53(d)(4) and § 1.63(d). If an oath or declaration as prescribed by § 1.63 is not filed during the pendency of a nonprovisional application, the inventorship is that inventorship set forth in the application papers filed pursuant to § 1.53(b), unless a petition under this paragraph accompanied by the fee set forth in § 1.17(i) is filed supplying or changing the name or names of the inventor or inventors."

For (title):

BIT SWAPPING FOR DIFFERENT INTERLEAVING DEPTHS

CERTIFICATION UNDER 37 C.F.R. § 1.10*

(Express Mail label number is mandatory.) (Express Mail certification is optional.)

I hereby certify that this New Application Transmittal and the documents referred to as attached therein are being deposited with the United States Postal Service on this date <u>June 20, 2003</u>, in an envelope as "Express Mail Post Office to Addressee," mailing Label Number <u>EV252882332US</u>, addressed to the: Assistant Commissioner for Patents, Washington, D.C. 20231.

Margery B. Hood

(type or print name of person mailing paper)

Signature of person mailing paper

WARNING: Certificate of mailing (first class) or facsimile transmission procedures of 37 C.F.R. § 1.8 cannot be used to obtain a date of mailing or transmission for this correspondence.

*WARNING: Each paper or fee filed by "Express Mail" must have the number of the "Express Mail" mailing label placed thereon prior to mailing, 37 C.F.R. § 1.10(b).

"Since the filing of correspondence under § 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will not be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

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1. Type of Application

This new application is for a(n)

(check one applicable item below)

Original (nonprovisional)

Design

Plant

WARNING: Do not use this transmittal for a completion in the U.S. of an International Application under 35 U.S.C. § 371(c)(4), unless the International Application is being filed as a divisional, continuation or continuation-in-part application.

WARNING: Do not use this transmittal for the filing of a provisional application.

NOTE: If one of the following 3 items apply, then complete and attach ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF A PRIOR U.S. APPLICATION CLAIMED and a NOTIFICATION IN PARENT APPLICATION OF THE FILING OF THIS CONTINUATION APPLICATION.

Divisional.

Continuation.

Continuation-in-part (C-I-P).

2. Benefit of Prior U.S. Application(s) (35 U.S.C. §§ 119(e), 120, or 121)

NOTE: A nonprovisional application may claim an invention disclosed in one or more prior filed copending nonprovisional applications or copending international applications designating the United States of America. In order for a nonprovisional application to claim the benefit of a prior filed copending nonprovisional application or copending international application designating the United States of America, each prior application must name as an inventor at least one inventor named in the later filed nonprovisional application and disclose the named inventor's invention claimed in at least one claim of the later filed nonprovisional application in the manner provided by the first paragraph of 35 U.S.C. § 112. Each prior application must also be:

- (i) An international application entitled to a filing date in accordance with PCT Article 11 and designating the United States of America; or
 - (ii) Complete as set forth in § 1.51(b); or
- (iii) Entitled to a filing date as set forth in § 1.53(b) or § 1.53(d) and include the basic filing fee set forth in § 1.16; or
- (iv) Entitled to a filing date as set forth in § 1.53(b) and have paid therein the processing and retention fee set forth in § 1.21(f) within the time period set forth in § 1.53(f).

37 C.F.R. § 1.78(a)(1).

NOTE: If the new application being transmitted is a divisional, continuation or a continuation-in-part of a parent case, or where the parent case is an International Application which designated the U.S., or benefit of a prior provisional application is claimed, then check the following item and complete and attach ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

WARNING: If an application claims the benefit of the filing date of an earlier filed application under 35 U.S.C. §§ 120, 121 or 365(c), the 20-year term of that application will be based upon the filing date of the earliest U.S. application that the application makes reference to under 35 U.S.C. §§ 120, 121 or 365(c). (35 U.S.C. § 154(a)(2) does not take into account, for the determination of the patent term, any application on which priority is claimed under 35 U.S.C. §§ 119, 365(a) or 365(b).) For a c-i-p application, applicant should review whether any claim in the patent that will issue is supported by an earlier application and, if not, the applicant should consider canceling the reference to the earlier filed application. The term of a patent is not based on a claim-by-claim approach. See Notice of April 14, 1995, 60 Fed. Reg. 20,195, at 20,205.

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WARI	NING	: When the last day of pendency of a provisional application falls on a Saturday, Sunday, or Federholiday within the District of Columbia, any nonprovisional application claiming benefit of the provisional application must be filed prior to the Saturday, Sunday, or Federal holiday within the District of Columbia. See 37 C.F.R. § 1.78(a)(3).	he		
		The new application being transmitted claims the benefit of prior U.S. application(s). Enclosed are ADDED PAGES FOR NEW APPLICATION TRANSMITTATION TRANSMITT			
3. Pa	aper	s Enclosed			
	A. Required for filing date under 37 C.F.R. § 1.53(b) (Regular) or 37 C.F.R. § 1.153 (Design) Application				
	_26	_ Pages of specification			
	4	_ Pages of claims			
	7	_ Sheets of drawing			
WARI	NING	: DO NOT submit original drawings. A high quality copy of the drawings should be supplied who filing a patent application. The drawings that are submitted to the Office must be on strong, which is smooth, and non-shiny paper and meet the standards according to § 1.84. If corrections to to drawings are necessary, they should be made to the original drawing and a high-quality copy the corrected original drawing then submitted to the Office. Only one copy is required or desired For comments on proposed then-new 37 C.F.R. § 1.84, see Notice of March 9, 1988 (1990 O. 57-62).	te, he of ed.		
NOTE	NOTE: "Identifying indicia, if provided, should include the application number or the title of the invention, inventor's name, docket number (if any), and the name and telephone number of a person to call if the Office is unable to match the drawings to the proper application. This information should be placed on the back of each sheet of drawing a minimum distance of 1.5 cm. (% inch) down from the top of the page" 37 C.F.R. § 1.84(c)).				
		(complete the following, if applicable)			
		The enclosed drawing(s) are photograph(s). Three (3) sets of photographs are a "PETITION TO ACCEPT PHOTOGRAPH(S) AS DRAWING(S)" are attached. 3 C.F.R. § 1.84(b).			
		The enclosed drawing(s) are in color. Three (3) sets of color drawings and "PETITION TO ACCEPT COLOR DRAWING(S)" are attached. 37 C.F.F §§ 1.84(a)(2) and 1.84(b).			
	X	formal			
		informal			
B.	B. Other Papers Enclosed				
Pages of declaration and power of attorney					
Pages of abstract					
Other					
I. Additional papers enclosed					
		Amendment to claims			
		☐ Cancel in this applications claims before calculating the filing fee. (At least one original independent claim must be retained for filing purposes.)	-		
		Add the claims shown on the attached amendment. (Claims added have been numbered consecutively following the highest numbered origin- claims.)			

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6	X)	Information Disclosure Statement (37 C.F.R. § 1.98)				
į	Χŋ	Form PTO-1449 (PTO/SB/08A and 08B)				
X		Citations				
		Declaration of Biological Deposit				
Ε]	Submission of "Sequence Listing," computer readable copy and/or amendment pertaining thereto for biotechnology invention containing nucleotide and/or amino acid sequence.				
	3	Authorization of Attorney(s) to Accept and Follow Instructions from Representative				
1		Special Comments				
[Other				
5. De	claı	ration or oath (including power of attorney)				
NOTE:	the by ap the by be de pe	newly executed declaration is not required in a continuation or divisional application provided that a prior nonprovisional application contained a declaration as required, the application being filed is all or fewer than all the inventors named in the prior application, there is no new matter in the plication being filed, and a copy of the executed declaration filed in the prior application (showing a signature or an indication thereon that it was signed) is submitted. The copy must be accompanied a statement requesting deletion of the names of person(s) who are not inventors of the application fing filed. If the declaration in the prior application was filed under § 1.47, then a copy of that claration must be filed accompanied by a copy of the decision granting § 1.47 status or, if a nonsigning irson under § 1.47 has subsequently joined in a prior application, then a copy of the subsequently ecuted declaration must be filed. See 37 C.F.R. §§ 1.63(d)(1)–(3).				
NOTE:	E: A declaration filed to complete an application must be executed, identify the specification to which is directed, identify each inventor by full name including family name and at least one given name, with abbreviation together with any other given name or initial, and the residence, post office address a country or citizenship of each inventor, and state whether the inventor is a sole or joint inventor. C.F.R. § 1.63(a)(1)–(4).					
NOTE:	NOTE: "The inventorship of a nonprovisional application is that inventorship set forth in the oath or declaration as prescribed by § 1.62, except as provided for in § 1.53(d)(4) and § 1.63(d). If an oath or declaration as prescribed by § 1.63 is not filed during the pendency of a nonprovisional application, the inventorship is that inventorship set forth in the application papers filed pursuant to § 1.53(b), unless a petition und this paragraph accompanied by the fee set forth in § 1.17(f) is filed supplying or changing the name or names of the inventor or inventors." 37 C.F.R. § 1.41(a)(1).					
		Enclosed				
		Executed by				
		(check all applicable boxes)				
		inventor(s).				
		legal representative of inventor(s). 37 C.F.R. §§ 1.42 or 1.43.				
		 joint inventor or person showing a proprietary interest on behalf of inventor who refused to sign or cannot be reached. 				
		☐ This is the petition required by 37 C.F.R. § 1.47 and the statement required by 37 C.F.R. § 1.47 is also attached. See item 13 below for fee.				
C	X	Not Enclosed.				
NOTE:	the ma	pere the filing is a completion in the U.S. of an International Application or where the completion of U.S. application contains subject matter in addition to the International Application, the application by be treated as a continuation or continuation-in-part, as the case may be, utilizing ADDED PAGE OR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION CLAIMED.				
		Application is made by a person authorized under 37 C.F.R. § 1.41(c) on behalf of all the above named inventor(s).				

☐ Preliminary Amendment

(The de	laration or oath, along with the surcharge required by 37 C.F.R. § 1.16(e) can be filed subsequently).
	Showing that the filing is authorized. (not required unless called into question. 37 C.F.R. § 1.41(d))
6. Invent	rship Statement
WARNING	If the named inventors are each not the inventors of all the claims an explanation, including the ownership of the various claims at the time the last claimed invention was made, should be submitted.
The inve	torship for all the claims in this application are:
	The same.
	or
	Not the same. An explanation, including the ownership of the various claims at the time the last claimed invention was made,
	is submitted.
	will be submitted.
7. Langu	ge
Ar. rec	application including a signed oath or declaration may be filed in a language other than English. English translation of the non-English language application and the processing fee of \$130.00 ired by 37 C.F.R. § 1.17(k) is required to be filed with the application, or within such time as may set by the Office. 37 C.F.R. § 1.52(d).
X	English
	lon-English
	The attached translation includes a statement that the translation is accurate. 37 C.F.R. § 1.52(d).
8. Assign	nent
∇	In assignment of the invention to Nokia Corporation
	is attached. A separate [] "COVER SHEET FOR ASSIGNMENT (DOCUMENT) ACCOMPANYING NEW PATENT APPLICATION" or [] FORM PTO 1595 is also attached.
	🕽 will follow.
	n assignment is submitted with a new application, send two separate letters-one for the application one for the assignment." Notice of May 4, 1990 (1114 O.G. 77-78).
WARNING:	A newly executed "CERTIFICATE UNDER 37 C.F.R. § 3.73(b)" must be filed when a continuation-in-part application is filed by an assignee. Notice of April 30, 1993, 1150 O.G. 62-64.
	his is a continuation divisional application and the assignment
	ocument for the parent application 0 / was filed
	n
	Reel
	Frame
	(New Application Transmittal [4-1]—page 5 of 11)

Certified copy(ies) of	application(s)		
Country	Appln	n. No.	Filed
Country	Appln	n. No.	Filed
Country	Appln	ı. No.	Filed
from which priority is o	laimed		
is (are) attac	hed.		
will follow.			
	ation forming the basis for th	he claim for priority must	be referred to in the oath or
U.S. application or § 120 is itself enti	International Application from led to priority from a prior for	m which this application c reign application, then cor	directly relates. If any parent laims benefit under 35 U.S.C. nplete item 18 on the ADDED PRIOR U.S. APPLICATION(S)
10. Fee Calculation	(37 C.F.R. § 1.16)		
A. 図 Regular app	lication		
	CLAIMS A	S FILED	
Number filed	Number E	ixtra Rate	Basic Fee 37 C.F.R. § 1.16(a) x\$77.170.00 \$750.00
Total Claims (37 C.F.R. § 1.16(c))	2 - 20 = 0	× \$ 18.00	
Independent			
Claims (37 C.F.R. § 1.16(b))	2 - 3 = 0	× \$ 80.00	
Multiple dependent cla if any (37 C.F.R. § 1.		+ \$270.00	
☐ Amendment	cancelling extra claims	s is enclosed.	
☐ Amendment	deleting multiple-depe	ndencies is enclosed	d.
☐ Fee for extra	a claims is not being p	aid at this time.	
NOTE: If the fees for extra prior to the expira	claims are not paid on filing th	hey must be paid or the cla	ims cancelled by amendment, and Trademark Office in any
	Filing Fee Calcu	lation	\$ 750.00
B. ☐ Design appl (\$310.00—3	J		

Filing Fee Calculation

9. Certified Copy

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С.	(\$480.00—37 C.F	.R. § 1.16(g))		
		Filing fee calculat	ion	\$
11. Sma	all Entity Statemer	it(s)		
	Statement(s) that is (are) attached.	this is a filing by a s	small entity under 37	C.F.R. § 1.9 and 1.27
WARNIN	the status is availab affect any other ap indirectly dependent refiling of an applica a continued prosect a new determination application. A nonpication or in the reference to the statement in the pridesired. The paymen	le and desired. Status a plication or patent, inci- t upon the application or ition under § 1.53 as a cution application under § as to continued entitlen rovisional application clause plication, or a reissue a patent if the nonprovisatement in the prior apport or application or in the prication or prication	s a small entity in one ap- luding applications or pa- patent in which the statu- ontinuation, division, or co- 1.53(d)), or the filing of a nent to small entity status siming benefit under 35 L application may rely on a sional application or the re- plication or in the paten patent and status as a sic c statutory filing fee will be	oplication or patent in which oplication or patent does not attents which are directly or us has been established. The continuation-in-part (including a reissue application requires for the continuing or reissue LS.C. § 119(e), 120, 121, or a statement filed in the prioreissue application includes a let or includes a copy of the mall entity is still proper and e treated as such a reference
WARNIN	=	make the required self-c		ns signing the : statement 509.03, 6th ed., rev. 2, July
	(co	omplete the followin	ng, if applicable)	
	Status as a small	entity was claimed	d in prior application	า
	/	, filed o	on	, from which benefit
	is being claimed	for this application	under:	
		119(e), 120, 121, 365(c),		
	and which statu	s as a small entity	is still proper and o	desired.
	☐ A copy of the	ne statement in the	prior application is	included.
	Filing Fee Ca	Iculation (50% of A	, B or C above)	
		\$		
а	•	s of the date of timely	•	blished and a refund request he two-month period is not
12. Req	uest for Internatio	nal-Type Search (37 C.F.R. § 1.104(d))
		(complete, if a	oplicable)	
0		international-type samination on the m		application at the time

*

13. Fe	e Payı	ment Being Made at This Time			
C	Not	Enclosed			
		No filing fee is to be paid at this time. (This and the surcharge required by 37 C.F.R. subsequently.)	§ 1.16(e) can be paid		
1] End	closed			
		Filing fee	\$		
		Recording assignment (\$40.00; 37 C.F.R. § 1.21(h)) (See attached "COVER SHEET FOR ASSIGNMENT ACCOMPANYING NEW APPLICATION".)	\$		
		Petition fee for filing by other than all the inventors or person on behalf of the inventor where inventor refused to sign or cannot be reached (\$130.00; 37 C.F.R. §§ 1.47 and 1.17(i))	\$		
		For processing an application with a specification in a non-English language (\$130.00; 37 C.F.R. §§ 1.52(d) and 1.17(k))	\$		
		Processing and retention fee (\$130.00; 37 C.F.R. §§ 1.53(d) and 1.21(l))	\$		
		Fee for international-type search report (\$40.00; 37 C.F.R. § 1.21(e))	\$		
NOTE:	failing to 37 C.F. either t	R. § 1.21(I) establishes a fee for processing and retaining any applies complete the application pursuant to 37 C.F.R. § 1.53(I) and to R. §§ 1.53 and 1.78(a)(1), indicate that in order to obtain the benithe basic filing fee must be paid, or the processing and retention 1 year from notification under § 53(I).	his, as well as the changes to efit of a prior U.S. application,		
		Total fees enclosed	\$		
14. M	ethod	of Payment of Fees			
0	☐ Atta	ached is a check money order in the amount	of \$		
Ī	☐ Aut	horization is hereby made to charge the amount of	\$		
		to Deposit Account No			
		to Credit card as shown on the attached credit cardion form PTO-2038.	d information authoriza-		
WARN	ING: Cr	redit card information should not be included on this form as it	may become public.		
C		arge any additional fees required by this paper or on the manner authorized above.	credit any overpayment		
	A duplicate of this paper is attached.				

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15. Authorization to Charg Additional Fees WARNING: If no fees are to be paid on filing, the following items should not be completed. WARNING: Accurately count claims, especially multiple dependent claims, to avoid unexpected high charges, if extra claim charges are authorized. The Office is hereby authorized to charge, in the manner shown above, the following additional fees that may be required by this paper and during the entire pendency of this application. ☐ 37 C.F.R. § 1.16(a), (f) or (q) (filing fees) 37 C.F.R. § 1.16(b), (c) and (d) (presentation of extra claims) NOTE: Because additional fees for excess or multiple dependent claims not paid on filing or on later presentation must only be paid or these claims cancelled by amendment prior to the expiration of the time period set for response by the PTO in any notice of fee deficiency (37 C.F.R. § 1.16(d)), it might be best not to authorize the PTO to charge additional claim fees, except possibly when dealing with amendments after final action. 37 C.F.R. § 1.16(e) (surcharge for filing the basic filing fee and/or declaration on a date later than the filing date of the application) 37 C.F.R. § 1.17(a)(1)–(5) (extension fees pursuant to § 1.136(a)). ☐ 37 C.F.R. § 1.17 (application processing fees) NOTE: ". . . A written request may be submitted in an application that is an authorization to treat any concurrent or future reply, requiring a petition for an extension of time under this paragraph for its timely submission. as incorporating a petition for extension of time for the appropriate length of time. An authorization to charge all required fees, fees under § 1.17, or all required extension of time fees will be treated as a constructive petition for an extension of time in any concurrent or future reply requiring a petition for an extension of time under this paragraph for its timely submission. Submission of the fee set forth in § 1.17(a) will also be treated as a constructive petition for an extension of time in any concurrent reply requiring a petition for an extension of time under this paragraph for its timely submission." 37 C.F.R. § 1.136(a)(3). 37 C.F.R. § 1.18 (issue fee at or before mailing of Notice of Allowance, pursuant to 37 C.F.R. § 1.311(b))

NOTE: Where an authorization to charge the issue fee to a deposit account has been filed before the mailing of a Notice of Allowance, the issue fee will be automatically charged to the deposit account at the time of mailing the notice of allowance. 37 C.F.R. § 1.311(b).

NOTE: 37 C.F.R. § 1.28(b) requires "Notification of any change in status resulting in loss of entitlement to small entity status must be filed in the application . . . prior to paying, or at the time of paying, . . . the issue fee. . . " From the wording of 37 C.F.R. § 1.28(b), (a) notification of change of status must be made even if the fee is paid as "other than a small entity" and (b) no notification is required if the change is to another small entity.

(New Application Transmittal [4-1]-page 9 of 11)

Customer No. 004955

NOTE: ".	reasonable time, nor will the payer i	s or less will not be returned unless specifically requested within be notified of such amounts; amounts over twenty-five dollars may ed, by credit to a deposit account." 37 C.F.R. § 1.26(a).
	Credit Account No.	
	Refund	
		A
		$(-f_1, \dots, 1)$
		/ Mus / Maire
		SIGNATURE OF PRACTITIONER
Reg. No.	31,391	Francis J. Maguire
		Ware, Fressola, Van Der Sluys & Adolphson LLI (type or print name of attorney)
Tel. No. (203) 261–1234	755 Main Street, P.O. Box 224
		,

Monroe, Connecticut 06468

P.O. Address

(New Application Transmittal [4-1]—page 10 of 11)

	Incorporation by refer nce of added page	ages		
	prior U.S. application(s) (including an stage as a continuation, divisional or	ation in this transmittal claims the benefit of international application entering the U.S. C-I-P application) and complete and attach ATION TRANSMITTAL WHERE BENEFIT OF ED)		
	 Plus Added Pages for New Application(s) Claimed 	ation Transmittal Where Benefit of Prior U.S.		
	Num	ber of pages added		
	☐ Plus Added Pages for Papers Refe	erred to in Item 4 Above		
	Num	ber of pages added		
Plus added pages deleting names of inventor(s) named in prior a who is/are no longer inventor(s) of the subject matter claimed in this				
	Num	ber of pages added		
	☐ Plus "Assignment Cover Letter Ac	companying New Application"		
	Num	ber of pages added		
X	Statement Where No Further Pages Added			
	(if no further pages form a part of thing this page and check the following items	s Transmittal, then end this Transmittal with ฑ)		
This transmittal ends with this page.				

(New Application Transmittal [4-1]—page 11 of 11)